INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/014603

		101/012	0047014603
A. CLASSIFIC	CATION OF SUBJECT MATTER H01L21/762, H01L27/12, H01L29	9/786, H01L21/336	
According to Int	ernational Patent Classification (IPC) or to both nationa	d classification and IPC	
B. FIELDS SE	ARCHED		
Minimum docum Int.Cl	nentation searched (classification system followed by classification syste	assification symbols) 9/786, H01L21/336	
	tearched other than minimum documentation to the external Shinan Koho 1922–1996 Ji	nt that such documents are included in the tsuyo Shinan Toroku Koho	tields searched 1996–2004
Kokai J	itsuyo Shinan Koho 1971-2004 To	roku Jitsuyo Shinan Koho	1994-2004
Electronic data b	ase consulted during the international search (name of d	lata base and, where practicable, search te	rms used)
			·····
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
X	JP 07-335735 A (Nippondenso		1,3,6,7,12,
v	22 December, 1995 (22.12.95), Par. Nos. [0020] to [0029]; F	ia 1	13,15 2,4,5,8-11,
Y	(Family: none)	±9. ±	14
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Y	JP 05-021465 A (Fujitsu Ltd.),	2,5
	29 January, 1993 (29.01.93),		
	Full text; all drawings (Family: none)		
	(rantiy. none)		
Y	JP 2003-152191 A (Semiconduc	tor Energy	4,5,11
	Laboratory Co., Ltd.), 23 May, 2003 (23.05.03),		
-	Full text; all drawings		
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	Full text; all drawings		
Further documents are listed in the continuation of Box C.		See patent family annex.	
* Special cate	gories of cited documents:	"T" later document published after the inte	
	lefining the general state of the art which is not considered ticular relevance	date and not in conflict with the application the principle or theory underlying the in	
"E" earlier application or patent but published on or after the international		"X" document of particular relevance; the considered novel or cannot be considered.	
filing date "L" document which may throw doubts on priority claim(s) or which is		step when the document is taken alone	
		"Y" document of particular relevance; the considered to involve an inventive	
"O" document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such being obvious to a person skilled in the	documents, such combination
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent i	
Date of the actual completion of the international search 16 December, 2004 (16.12.04)		Date of mailing of the international sear 11 January, 2005 (1	
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Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
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Facsimile No.		Telephone No.	

INTERNATIONAL SEARCH REPORT

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PCT/JP2004/014603

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-102442 A (Oki Electric Industry Co., Ltd.), 13 April, 2001 (13.04.01), Full text; all drawings (Family: none)	8, 9
Y	JP 2000-150664 A (Toshiba Corp.), 30 May, 2000 (30.05.00), Par. Nos. [0037] to [0054]; Fig. 1 (Family: none)	10
Y	JP 10-209453 A (Toshiba Corp.), 07 August, 1998 (07.08.98), Full text; all drawings (Family: none)	14
E,A	JP 2004-349702 A (Sharp Corp.), 09 December, 2004 (09.12.04), Full text; all drawings (Family: none)	16-32